CLAIMS

			•	•
What	10	aım	20	10'
vv IIal	13	ıanıı	·u	10.

1. A method for manufacturing a medical device, comprising:

forming a device body;

forming a first electrically conductive element on the device body;

forming a first electrode on the device body; and

operably connecting the first electrode and the first electrically conductive element.

2. The method of claim 1, further comprising:

forming a second electrically conductive element on the device body;

forming a second electrode on the device body; and

operably connecting the second electrode and the second electrically conductive element.

3. The method of claim 2, further comprising:

forming a device tip; and

affixing the device tip to the device body.

4. The method of claim 1, wherein the step of forming the device body comprises:

extruding a first cylindrical body layer;
extruding a second cylindrical body layer;
placing the second body layer within the first body layer; and
bonding the second body layer to the first body layer.

- 5. The method of claim 1, wherein the step of forming the device body comprises co-extruding a first cylindrical body layer with a second cylindrical body layer.
- 6. The method of claim 4, wherein the step of forming a first electrically conductive element on the device body comprises co-extruding a first electrically conductive element within the device body.
- 7. The method of claim 4, wherein the step of forming a first electrically conductive element on the device body comprises electro-depositing a conductive material on a nonconductive portion of the device body.
- 8. The method of claim 4, wherein the step of extruding the second cylindrical body layer comprises extruding the second cylindrical body layer over the first cylindrical body layer.
- 9. The method of claim 4, wherein the step of forming a first electrode on the device body comprises the steps of:

forming a groove on at least a portion of the device body;

depositing conductive material within the groove in a shape of the first electrode; and

in the event that a portion of the conductive material extends beyond an upper surface of the groove, removing the portion of conductive material.

- 10. The method of claim 9, wherein the step of forming a groove on at least a portion of the device body is performed simultaneously with the step of forming the device body.
- 11. The method of claim 4, wherein the step of forming a first electrically conductive element on the device body comprises the steps of:

co-extruding electrically conductive material with the first cylindrical body layer; and

removing a portion of the first cylindrical body layer to expose at least a portion of the electrically conductive material.

12. The method of claim 4, wherein the step of forming a first electrically conductive element on the device body comprises:

coating a surface of the device body with an electrically conductive material; and

selectively removing at least a portion of the electrically conductive material from the device body.

- 13. The method of claim 12, wherein the step of selectively removing at least a portion of the electrically conductive material from the device body comprises exposing at least a portion of the electrically conductive material to a chemical solvent.
- 14. The method of claim 12, wherein the step of selectively removing at least a portion of the electrically conductive material from the device body comprises vaporizing at least a portion of the electrically conductive material with a laser.
- 15. The method of claim 4, wherein the step of forming a first electrically conductive element on the device body comprises extruding a conductive layer across at least a portion of the device body.
- 16. The method of claim 15, further comprising:

extruding a second device body longitudinally encasing the device body and extruded conductive layer; and

extruding a second conductive layer across at least a portion of the second device body.

17. The method of claim 4, wherein the step of forming a first electrically conductive element on the device body comprises:

feeding wire from a spool to a mandrel under tension;

positioning the wire with respect to an ultimate location along the device body means of the mandrel; and

co-extruding the wire with the device body.

18. The method of claim 4, wherein the step of forming a first electrically conductive element on the device body comprises:

forming a groove on an exterior surface of the device body; and placing a wire within the groove.

19. The method of claim 16, further comprising the steps of:

forming a tip structure; and

affixing the tip structure to the device body.

20. The method of claim 19, wherein the step of forming a tip structure comprises: plating a metal electrode over a molded non-conductive tip shape;

forming a via in the tip shape; and

electrically connecting a trace to the metal electrode through the via.

21. The method of claim 4, further comprising the step of affixing an adapter to a distal end of the device body.

22. The method of claim 21, wherein the step of affixing an adapter to a distal end of the device body comprises:

aligning an adapter trace with the first electrically conductive element with an adapter trace; and

inserting a portion of the adapter into the distal end of the device body such that the adapter trace and electrically conductive element are operably connected.

23. A method for manufacturing a medical device, comprising:

forming a skeletal structure comprising at least one electrode and at least one trace;

overmolding a nonconductive shaft over the skeletal structure; and removing a portion of the nonconductive shaft to expose a portion of the skeletal structure.

24. A method for manufacturing a medical device, comprising:

extruding a first cylindrical body;

extruding a second cylindrical body;

forming a first electrically conductive element on the first cylindrical body;

forming a first electrode on the first cylindrical body;

forming a second electrically conductive element on the second cylindrical body;

forming a second electrode on the first cylindrical body;

operably connecting the second electrode and the second electrically conductive element;

operably connecting the first electrode and the first electrically conductive element;

placing the second cylindrical body within the first cylindrical body; and bonding the second cylindrical body to the first cylindrical body.

25. The method of claim 24, further comprising the step of:
aligning the first and second electrically conductive elements in a plane; and
separating the first and second electrically conductive elements with a

nonconductive layer.